

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Charles E. Baumgartner et al. : Group Art Unit:

Serial No.: To Be Assigned : Examiner:

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Title: METHOD FOR MAKING MULTI-LAYER  
CERAMIC ACOUSTIC TRANSDUCER

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB-CLASS	FILING DATE
JTH	A 4,217,684	8/19/80	Brisken et al.	29	25.35	
JTH	B 4,460,841	7/17/84	Smith et al.	310	334	
JTH	C 5,329,496	7/12/94	Smith	367	140	
JTH	D 5,381,385	1/10/95	Greenstein	367	140	

**OTHER DOCUMENTS**

(Including Author, Title, Date, Relevant Pages, Place of Publication)

JTH	E	Goldberg et al., "Multi-Layer PZT Transducer Arrays for Improved Sensitivity", 1992 IEEE Ultrasonics Symposium, pp. 551-554.
JTH	F	Saitoh et al., "A Low-Impedance Ultrasonic Probe Using a Multilayer Piezoelectric Ceramic," Jap. Jour. Appl. Phys., Vol. 28, Supp. 28-1, pp. 54-56 (1989).
JTH	G	Desilets et al., "Effect of Wraparound Electrodes on Ultrasonic Array Performance," 1998 IEEE Ultrasonics Symposium (preprint).
JTH	H	Martin et al., "Back-Face Only Electrical Connections of Thickness Mode Piezoelectric Transducers," IEEE Trans. UFFC, Vol. 33, No. 6, 778-781 (1986).

Examiner:

Date Considered:

3/25/05

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.